

TODO

- create a user-flow and database schema
- clear all doubts about the project

- Login Page

- roles -

Admin	full access to all sections
Sales manager	access to Sales sections
Inventory manager	access to Inventory sections
Revenue manager	access to Revenue sections
Customer Support manager	access to customer support section

- Manage users (OPTIONAL)

- add, edit, remove, assign roles, reset password user

- Sales Performance monitoring

- Real-Time Sales/Order Data Visualization

- bar graph on sales of different category in realtime
 - line graph on sales in realtime

- Comparison of sales over days, week and month

- Line charts showing sales data over a timeslot
 - to compare it can have two charts with different timeslots

- optional:

- get top 5 products or categories

- Inventory Management

- Monitor/Track Stock Levels in Real-Time

- Display current stock levels for all products or categories in real-time

- Predict Stock Shortages and Automate reorder processes

- Notifications for potential stock shortages based on current sales trends or from previos month sales track / threshold value
 - set threshold value of each stock at each day (threshold value is Lead Time * Average order of last 30 days)
 - sends the reordering (for next 30 days) if no paused (EOD) to a specific threshold value
 - notification center

- Highlight Low-Stock Items

- sort the realtime data of stock according to the low to higher threshold value

- Revenue and Profit Analysis

- Visualize Revenue and Profit Margins

- Show total revenue and profit margins in graph in each categories for the given date

- Cost Analysis

- Break down costs in unit economics of each product in pie chart

- Forecast Future Sales and Revenue Trends

- Identify high-performing products and forecast future trends based on sales data and customer search history

- Third-Party API Integrations

- Simplified Customer Support Dashboard

(main application is already handling the creation of tickets)

- Dashboard Overview
 - summary of open tickets, closed tickets, tickets by priority
 - Ticket Viewing

- Priority-Based Ticket List View
 - Search and Filter
- Ticket Details
 - View Ticket Details
 - Update Status
 - Add Notes and Comments
- Utility
 - script to send data from file to our server as client request to show the realtime changes in the project
- Devops
 - CI / CD pipeline
 - Monitoring for system performance
 - monitor application performance
 - monitoring infrastructure
 - Load monitoring
 - alert based on monitoring
 - logging for error tracking
 - Collect logs to identify issues or debug errors

USERS

id	INT	pk
username	nvarchar (50)	not null and unique
password	nvarchar (255)	not null
role	enum / nvarchar	('Admin', 'SalesManager', 'InventoryManager', 'RevenueManager', 'CustomerSupportManager')
email	VARCHAR(100)	NOT NULL
last login	DATETIME	NULL

ORDER

id	INT	pk
user_id	INT	fk
total_price	DECIMAL(10, 2)	not null
status	enum / nvarchar	('Pending', 'Completed', 'Cancelled')
createdAt	DATETIME	DEFAULT CURRENT_TIMESTAMP
updatedAt	DATETIME	null

ORDER_ITEM

id	INT	pk
productid	INT	fk
order_id	INT	fk
quantity	INT	not null
price	DECIMAL(10, 2)	not null
status	enum / nvarchar	('Pending', 'Shipped', 'Delivered', 'Returned')
discount	DECIMAL(10, 2)	DEFAULT 0.00
createdAt	DATETIME	DEFAULT CURRENT_TIMESTAMP

PRODUCT

id	INT	pk
name	nvarchar(100)	not null
cost_price	DECIMAL(10, 2)	not null
selling_price	DECIMAL(10, 2)	not null
shipping_cost	DECIMAL(10, 2)	default 0.00
discount	DECIMAL(10, 2)	default 0.00
net_profit	DECIMAL(10, 2)	selling_price - cost_price - shipping_cost - discount
threshold value	INT	DEFAULT 0

category id	INT	fk
stock	INT	not null
supplier_id	INT	fk
createdAt	DATETIME	DEFAULT CURRENT_TIMESTAMP
updatedAt	DATETIME	null

CATEGORY

id	INT	pk
title	nvarchar(100)	not null

Customer Search

id	INT	pk
search term	nvarchar(255)	not null
count	INT	DEFAULT 1
user_id	INT	fk
searched_at	DATETIME	DEFAULT CURRENT_TIMESTAMP

SUPPLIERS

id	INT	pk
name	nvarchar(100)	not null
contact info	nvarchar(255)	not null
address	TEXT	not null

Stock Alerts

id	INT	pk
product_id	INT	fk
alert_level	INT	not_null
notified_at	DATETIME	DEFAULT CURRENT_TIMESTAMP
status	enum / nvarchar	('Pending', 'Resolved')

Color pallet

Blood Red	#E50010
White	#FFFFFF
Off White	#FBF9F7
Black	#222222

